

ElastiGlass Barrier Film and Food Processing Techniques for the 3-to-5 Year Shelf-Stable Food Package, Phase I

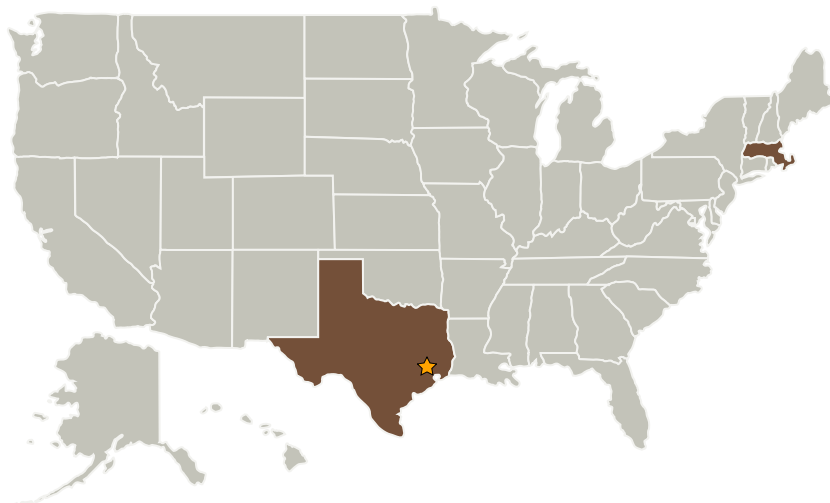
Completed Technology Project (2006 - 2006)



Project Introduction

Current interests within the National Aeronautics and Space Administration (NASA) foresee extension of exploratory space missions to the Moon, Mars, and beyond. Realization of these targets will require development of a range of advanced technologies including life support systems. Food represents one of the most crucial components of life support, as the ability to supply safe, nutritious and organoleptically pleasing meals to space flight personnel for the duration of their mission will be of paramount importance in maintaining crew functionality and morale. In this Phase I Small Business Innovation Research (SBIR) program, Infoscitex Corporation will develop an advanced barrier film, ElastiGlass, which will enable 3-to-5 year shelf life, with the added benefit of reducing the logistic burdens associated with waste handling, and minimizing package weight and storage space requirements. Follow-on efforts will focus on the development of food preparation and packaging processes that will ensure near zero oxygen content within the sealed food pouch. Specific benefits of ElastiGlass thermostabilized food pouches will include: increased shelf-life (3 to 5 years), reduced weight, reduced waste, zero metal content, and optical transparency.

Primary U.S. Work Locations and Key Partners



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★ Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
Infoscitex Corporation	Supporting Organization	Industry	Waltham, Massachusetts

Primary U.S. Work Locations

Massachusetts	Texas
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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX07 Exploration Destination Systems
 - └ TX07.2 Mission Infrastructure, Sustainability, and Supportability
 - └ TX07.2.1 Logistics Management